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1 **Nomadic radio: speech and audio interaction for contextual messaging in n**

Nitin Sawhney, Chris Schmandt

September 2000

ACM Transactions on Computer-Human Interaction (TOCHI),

Full text available: pdf(648.76 KB)

Additional Information: full citation, abstract, references


Mobile workers need seamless access to communication and information serv
solutions overwhelm users with intrusive interfaces and ambiguous notificatio
techniques developed for Nomadic Radio, a wearable computing platform for m
in a nomadic environment. Nomadic Radio employs an auditory user interface
speech synthesis, nonspeech audio ...

Keywords: adaptive interfaces, contextual interfaces, interruptions, nonspeec
spatial listening, speech interaction, wearable computing

2 Papers: YESSIR: a simple reservation mechanism for the Internet

Ping Pan, Henning Schulzrinne

April 1999 ACM SIGCOMM Computer Communication Review, Volume 29 Iss

Full text available:  pdf(1.23 MB)


Additional Information: full citation, abstract, refer

RSVP has been designed to support resource reservation in the Internet. How complexity and scalability. The former results in large message processing ov inefficient firewall processing at the edge of the network. The latter implies th of bandwidth consumed by refresh messages and the storage space that is ne a router are too large. We have devel ...

3 Phoneshell: the telephone as computer terminal

Chris Schmandt

September 1993 Proceedings of the first ACM international conference on Multim

Full text available:  pdf(147.72 KB)  ps(242.40 KB)


Additional Information: full citation, references,

Keywords: auditory user interface, digitized speech, interactive voice respons

4 Illustrative risks to the public in the use of computer systems and related te

Peter G. Neumann

January 1996 ACM SIGSOFT Software Engineering Notes, Volume 21 Issue 1


Full text available:  pdf(2.54 MB)

Additional Information: full citation

5 An architectural approach to minimizing feature interactions in telecommun

Israel Zibman, Carl Woolf, Peter O'Reilly, Larry Strickland, David Willis, John Vis

August 1996 IEEE/ACM Transactions on Networking (TON), Volume 4 Issue 4


Full text available:  pdf(1.55 MB)

Additional Information: full citation, references, index terms

6 The case for services over cascaded networks

Anthony D. Joseph, B. R. Badrinath, Randy H. Katz

October 1998 Proceedings of the 1st ACM international workshop on Wireless mob

Full text available:  pdf(1.08 MB)

Additional Information: full citation, references, citings, index term

7 An audio input-output computer system for medical information

Michael Otten, Scott I. Allen, Perry Plexico, William C. White

August 1969

Proceedings of the 1969 24th national conference

Full text available:  pdf(754.84 KB)


Additional Information: full citation, abstract, reference

An experimental telephone-based input-output system, using low-cost audio r a medium-sized real-time computer. This system enables update of audio voc terminal, which is a major feature simplifying program and data base modific analog-to-digital converter at the rate of 10,000 samples per second, compre bit per sample, and stored on a ...

8 The design of an interactive online help desk in the Alexandria Digital Libra

Robert Prince, Jianwen Su, Hong Tang, Yonggang Zhao

March 1999 ACM SIGSOFT Software Engineering Notes , Proceedings of the intern coordination and collaboration, Volume 24 Issue 2

Full text available:  pdf(1.53 MB)

Additional Information: full citation, abstract, referenc

In large software systems such as digital libraries, electronic commerce applic user interface and system are often complex and difficult to navigate. It is ne online support to help users learn how to effectively use these applications. S providing tutorials and animated demonstrations, synchronized activities betw real time instruction ...

Keywords: collaboration, digital library, online help desk, online support, user

9 Speech and ambiguous input: Mediated voice communication via mobile IF

Chris Schmandt, Jang Kim, Kwan Lee, Gerardo Vallejo, Mark Ackerman

October 2002 Proceedings of the 15th annual ACM symposium on User interface

Full text available:  pdf(552.85 KB)

Additional Information: full citation, abstra

Impromptu is a mobile audio device which uses wireless Internet Protocol (IP communication channels. These channels show the richness of IP-based comm mobile telephony, adding audio processing and storage in the network, and fl These channels may be synchronous, asynchronous, or event-triggered, or ev user activity. The demands of these ...

Keywords: audio user interfaces, computer-mediated communication, speech

10 A direct signaling system for flexible access and deployment of telecommu

Thomas F. La Porta, Kuo-Wei Herman Chen

August 1997 IEEE/ACM Transactions on Networking (TON), Volume 5 Issue 4

Full text available:  pdf(219.51 KB)


Additional Information: full citation, references, index term

Keywords: ISDN, intellignet networks, signaling

11 Interworking between Digital European Cordless Telecommunications and

Sudarshan Rao, David J. Goodman, Gregory P. Pollini, Kathleen S. Meier-Hellste

February 1995 Wireless Networks, Volume 1 Issue 1

Full text available:  pdf(1.01 MB)

Additional Information: full citation, abstract, references,

The Digital European Cordless Telecommunications (DECT) standard specifies infrastructure to transfer information between wireless terminals, and to trans terminal and a fixed network. The Public Switched Telephone Network, the GS Exchanges and mobile data networks are all under investigation as DECT back the future and describe interworking ...

12 Trunking of TDM and narrowband services over IP Networks

James Aweya

January 2003 International Journal of Network Management, Volume 13 Is

Full text available:  pdf(418.58 KB)

Additional Information: full citation, abstract, refere

The recent interest in IP as the vehicle for transporting TDM and narrowband a common transport network for voice, video, and data, and the flexibility wit key step in the evolution of networks towards a 'broadband'; IP- 'graceful'; interworking of the IP networks with the existing netw circuit switched telephone network. A &l ...

13 Towards junking the PBX: deploying IP telephony

Wenyu Jiang, Jonathan Lennox, Henning Schulzrinne, Kundan Singh

January 2001 Proceedings of the 11th international workshop on Network and ope video

Full text available:  pdf(312.40 KB)

Additional Information: full citation, abstract, reference

We describe the architecture and implementation of our Internet teleph ony t departmental PBX (telephone switch). It interworks with the traditional teleph also serves as a corporate or campus infrastructure for existing and future ser media. Initially intended for a few users, it will eventually replace the plain ol cost benefit and new ...

Keywords: PSTN/IP interoperability, SIP, VoIP test-bed, internet telephony de

14 Office Information Systems and Computer Science

Clarence A. Ellis, Gary J. Nutt


January 1980 ACM Computing Surveys (CSUR), Volume 12 Issue 1

Full text available:  pdf(2.87 MB) Additional Information: full citation, references, citings, index terms

15 NSF workshop on industrial/academic cooperation in database systems

Mike Carey, Len Seligman

March 1999 ACM SIGMOD Record, Volume 28 Issue 1

Full text available:  pdf(1.96 MB) Additional Information: full citation, index terms

16 Voice over IP

Upkar Varshney, Andy Snow, Matt McGivern, Christi Howard

January 2002 Communications of the ACM, Volume 45 Issue 1


Full text available:  pdf(113.77 KB) Additional Information: full citation, abstract, reference

How can voice over the Internet claim a greater share of the worldwide phone dominated for more than 100 years by the public-switched telephone network

17 Interpersonal trust and common ground in electronically mediated commun

Steve Greenspan, David Goldberg, David Weimer, Andrea Basso

December 2000 Proceedings of the 2000 ACM conference on Computer support

Full text available:  pdf(222.70 KB) Additional Information: full citation, abstract, reference

Communication and commerce by web or phone creates benefits and challeng provide convenience and visualization; telephones provide voice and real-tim these experiences, we developed PhoneChannel. Using PhoneChannel, a PC u display visuals on the other person's television. How do these different media recent laboratory study, prospective ho ...

Keywords: WWW, consumers, conversation, telephony, television

18 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 Proceedings of the 1997 conference of the Centre for Advanced S

Full text available:  pdf(4.21 MB) Additional Information: full citation, abstract, referen



Understanding distributed applications is a tedious and difficult task. Visualiza often used to obtain a better understanding of the execution of the application event tracer developed at the University of Waterloo. However, these diagram provide the user with the desired overview of the application. In our experien of non-trivial commun ...

19 News on-demand for multimedia networks

Gene Miller, Greg Baber, Mark Gilliland

September 1993

Proceedings of the first ACM international conference on Mu

Full text available:  pdf(106.03 KB)  ps(1.21 MB)

Additional Information: full citation, r

Keywords: authoring, database, digital video, information service, messaging wideband

20 Capturing, structuring, and representing ubiquitous audio

Debby Hindus, Chris Schmandt, Chris Horner

October 1993

ACM Transactions on Information Systems (TOIS), Volume 11

Full text available:  pdf(1.78 MB)

Additional Information: full citation, abstract, references,

Although talking is an integral part of collaboration, there has been little com the contents of conversations. Our approach has focused on ubiquitous audio, interactions in everyday work environments. Speech recognition technology c speech, so the words themselves are not available for organizing the captured int ...

Keywords: audio interactions, collaborative work, multimedia workstation soft telephony, stored speech, ubiquitous computing

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21 Level II technical support in a distributed computing environment

Tim Leehane

September 1996 Proceedings of the 24th annual ACM SIGUCCS conference on User

Full text available: pdf(5.73 MB)

Additional Information: full citation, references, index terms

22 Designing Leisure Applications for the Mundane Car-Commute

Karl-Petter Dkesson, Andreas Nilsson

January 2002

Personal and Ubiquitous Computing, Volume 6 Issue 3

Full text available: pdf(229.75 KB)

Additional Information: full citation, abstrac

Commuting by car from home to work can be very time consuming. We have are doing, and want to do, while commuting. People use their time in the car innovation. There was no unanimous activity that everyone wanted, rather a Three different categories of activity were identified which we refer to as mun demonstrate a possible IT serv ...

23 Context and Location: Location-based notification as a general-purpose se

Jonathan P. Munson, Vineet K. Gupta

September 2002

Proceedings of the second international workshop on Mobile

Full text available:  pdf(190.40 KB)

Additional Information: full citation, abstract, refere

An often-discussed mobile commerce application is proximity-based coupon d notified when a valued customer is within some distance of a retail outlet, up coupon or some notice of a special promotion. We believe that this basic mec application far beyond commercial promotion, and is also of interest for touris public safety. Furthermor ...

Keywords: Pervasive computing, mobile commerce, wireless notification

24 Beyond third generation telecommunications architectures: the convergenc telephony

Randy H. Katz

April 1998

ACM SIGMOBILE Mobile Computing and Communications Review, Vo

Full text available:  pdf(994.41 KB)

Additional Information: fu

25 Multimedia support for wireless W-CDMA with dynamic spreading

Ju Wang, Mehmet Ali Elicin, Jonathan C. L. Liu

July 2002

Wireless Networks, Volume 8 Issue 4

Full text available:  pdf(289.18 KB)

Additional Information: full citation, abstract, referen

The emerging multimedia communication needs more support in operating sy wireless environment. The system needs to support a seamless integration (i. voice, audio and conventional data (e.g., e-mails, and ftp). It should also sup quality. In this paper, we investigate effective protocol design with dynamic s based on different traffic types can ...

Keywords: admission control protocol, dynamic spreading factors, integrated quality-of-service, wide-band CDMA

26 The information furnace: consolidated home control

Diomidis D. Spinellis

May 2003

Personal and Ubiquitous Computing, Volume 7 Issue 1

Full text available:  pdf(488.36 KB)

Additional Information: full citation, abstrac

The Information Furnace is a basement-installed PC-type device that in infotainment, security and communication technologies to transparently provi modern home contains a large number of sophisticated devices and technolog provided through a wide variety of disparate interfaces. As a result, end users user-interfaces, access modes a ...


Keywords: Automation, Consumer electronics, Home-control, Multi-modal inte

27 Designing audio aura

Elizabeth D. Mynatt, Maribeth Back, Roy Want, Michael Baer, Jason B. Ellis

January 1998

Proceedings of the SIGCHI conference on Human factors in compu

Full text available:  pdf(1.14 MB)

Additional Information: full citation, references, citings, inde


Keywords: VRML, active badge, audio, auditory icons, augmented reality, awa

28 Mobile computing in next generation wireless networks

Prathima Agrawal, David Famolari

August 1999

Proceedings of the 3rd international workshop on Discrete algorithms communications

Full text available:  pdf(1.01 MB)

Additional Information: full citation, references, citing

Keywords: IMT-2000, cdma2000, mobile computing, wireless data

29 The broadband Internet: the end of the equal voice?

John B. Morris, Jerry Berman

April 2000

Proceedings of the tenth conference on Computers, freedom and privac


Full text available:  pdf(121.68 KB)

Additional Information: full citation, references, ind

30 IP multicast channels: EXPRESS support for large-scale single-source app

Hugh W. Holbrook, David R. Cheriton

August 1999 ACM SIGCOMM Computer Communication Review , Proceedings of the architectures, and protocols for computer communication, Volume 2

Full text available:  pdf(1.66 MB)


Additional Information: full citation, abstract, references,

In the IP multicast model, a set of hosts can be aggregated into a group of hosts that can send. However, Internet TV, distance learning, file distribution and other applications strain the current realization of this model, which lacks a basis for charging, large scale. This paper proposes an extension to IP multicast to support the *channel* realization ...

31 Composing features and resolving interactions

Jonathan D. Hay, Joanne M. Atlee

November 2000 ACM SIGSOFT Software Engineering Notes , Proceedings of the 8th on Foundations of software engineering: twenty-first century applications

Full text available:  pdf(1.05 MB)

Additional Information: full citation, abstract, references,


One of the accepted techniques for developing and maintaining systems is to treat each feature as a separate concern. However, most features are coupled to one another through the system's basic services. These features subtly interfere with each other when trying to operate in different directions. The ...

Keywords: conflict resolution, feature interaction, incremental

32 Laboratory for emulation and study of integrated and coordinated media co

L. F. Ludwig, D. F. Dunn

August 1987 ACM SIGCOMM Computer Communication Review , Proceedings of the communications technology, Volume 17 Issue 5

Full text available:  pdf(1.05 MB)

Additional Information: full citation, abstract, references,

In future telecommunications networks, understanding the issues of user-network (CPE) technologies, services and user applications is as important as the class structure, switching, and transmission. This paper discusses a Bell Communications Media Architecture Laboratory (IMAL), designed to flexibly emulate a wide range of environments with a focus on multi-media ...

33 Designing a quality voice: an analysis of listeners' reactions to synthetic voi

M. B. Rosson, A. J. Cecala

April 1986 ACM SIGCHI Bulletin , Proceedings of the SIGCHI conference on Huma
17 Issue 4

Full text available:  pdf(723.22 KB)


Additional Information: full citation, abstract, refer

Eight subjects listened to a set of synthetic voices reflecting a crossing of four and smoothness. The listeners evaluated the voices on sixteen perceptual sca appropriateness for twenty voice-output scenarios. Factor analysis of the perc fullness and clarity. A similar analysis of the appropriateness ratings revealed entertainment and feedback ...

34 W-mail: an electronic mail system for wearable computing environments

Hirota Ueda, Masahiko Tsukamoto, Shojiro Nishio

August 2000 Proceedings of the sixth annual international conference on Mobile

Full text available:  pdf(1.99 MB)

Additional Information: full citation, abstract, referenc

This paper describes an e-mail system for wearable computing environments. conventional mail format and the server/client(browser) architecture by consi computing environments, i.e., full time operation, hands-free use of compute mail author can specify the behavior of his/her mail by embedding several us specify in the mail various conditi ...

Keywords: e-mail, location dependent service, wearable computing

35 Making computers disappear: appliance data services

Andrew C. Huang, Benjamin C. Ling, John Barton, Armando Fox

July 2001 Proceedings of the seventh annual international conference on Mobile

Full text available:  pdf(691.57 KB)

Additional Information: full citation, abstract, re

Digital appliances designed to simplify everyday tasks are reac example, mobile users can retrieve Web content using handhel well-supported by infrastructure services such as transformati type of support is lacking for input-centric devices, those that c share content. This lack of infrastructural support makes input-less useful. ...

- 36 Context and Location: Intelligent pervasive middleware for context-based a**
Chatschik Bisdikian, Isaac Boamah, Paul Castro, Archan Misra, Jim Rubas, Nicola
Henry Huang, Craig Simonds
September 2002 Proceedings of the second international workshop on Mobile

Full text available:  pdf(565.14 KB)

Additional Information: full citation, abstract, refere

Telematics is arguably the next-wave in mobile computing: with most cars alr
computing platforms, we shall witness the development of a variety of mobile
commercial potential. Telematics will only become a commercial reality when
address significant concerns related to the security and privacy of telematics
information from and to a large numb ...

Keywords: pervasive computing, telematics

- 37 Pen computing: a technology overview and a vision**

André Meyer

July 1995

ACM SIGCHI Bulletin, Volume 27 Issue 3

Full text available:  pdf(5.14 MB)

Additional Information: full citation, abstract, citing

This work gives an overview of a new technology that is attracting growing in
industry itself. The visible difference from other technologies is in the use of a
interaction between a user and a machine, picking up the familiar pen and pa
set of consequences that will be analyzed and put into context with other eme
with a short historic ...

- 38 Satellite communications systems move into the twenty-first century**

Leonard S. Golding

February 1998

Wireless Networks, Volume 4 Issue 2

Full text available:  pdf(183.57 KB)

Additional Information: full citation, abstract, ind

This paper discusses the evolution of communication satellite systems and co
1960's to the 1990's. The paper identifies the key attributes of satellite comm
and now drives the future directions such systems will take. The paper then d
communication satellite systems including DBS, MSS, FSS and hybrid satellite
the continued evolution of ...

- 39 The wireless Net**

Dennis Fowler

August 1997

netWorker, Volume 1 Issue 2


Full text available:  pdf(566.06 KB) Additional Information: full citation, references, index terms, review

40 Using PARLAY APIs over a SIP system in a distributed service platform for

Rudolf Pailer, Johannes Stadler, Igor Miladinovic

July 2003

Wireless Networks, Volume 9 Issue 4

Full text available:  pdf(1.19 MB)

Additional Information: full citation, abstract, referen

The implementation of new mobile communication technologies developed in (3GPP) will allow to access the Internet not only from a PC but also via mobil applications will emerge, combining several basic services like voice telephon web-browsing, and thus wiping out the borders between the fixed telephone n Offering those value-added services ...

Keywords: SIP-Parlay mapping, caller preferences, carrier grade services, net platform

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41 PCS mobility management using the reverse virtual call setup algorithm

Chih-Lin I, Gregory P. Pollini, Richard D. Gitlin

February 1997 IEEE/ACM Transactions on Networking (TON), Volume 5 Issue 1

Full text available: pdf(280.50 KB)

Additional Information: full citation, references, citings, index ter

Keywords: PCS, mobility management, personal communications, reverse virt

42 Experiences with network-based user agents for mobile applications

Thomas F. La Porta, Thomas Woo, Krishan K. Sabnani, Ramachandran Ramjee

August 1998 Mobile Networks and Applications, Volume 3 Issue 2

Full text available: pdf(631.57 KB)


Additional Information: full citation, abstract, refere

Wireless networks are characterized by simple end devices and limited bandw
other limitations of the wireless mobile environment that has been widely pur
agents, inside the network to assist with application processing that would no
agents can additionally manipulate data to reduce bandwidth requirements an
and implementation of a user a ...

43 Emerging mobile and wireless networks

Upkar Varshney, Ron Vetter

June 2000 Communications of the ACM, Volume 43 Issue 6

Full text available:  pdf(609.43 KB) Additional Information: full citation, references, citings, index terms, review

44 On-ramp prospects for the information superhighway dream: will the goal o carrying a wide variety of data types ever be achieved?

Gordon Bell, Jim Gemmell

July 1996 Communications of the ACM, Volume 39 Issue 7

Full text available:  pdf(369.58 KB) Additional Information: full citation, citings

45 Overlay networks: SOS: secure overlay services

Angelos D. Keromytis, Vishal Misra, Dan Rubenstein

August 2002 Proceedings of the 2002 conference on Applications, technologies, ar communications

Full text available:  pdf(210.90 KB) Additional Information: full citation, abstract, refere

Denial of service (DoS) attacks continue to threaten the reliability of network protecting networks from DoS attacks are reactive in that they wait for an att appropriate measures to protect the network. This leaves the door open for ot methods to mask their traffic. We propose an architecture called Secure Overla DoS attacks, geared toward supportin ...

Keywords: denial of service attacks, network security, overlay networks

46 MEP: a media event platform

Daniel Olsson, Andreas Nilsson

June 2002 Mobile Networks and Applications, Volume 7 Issue 3

Full text available:  pdf(224.85 KB) Additional Information: full citation, abstract, refere

Popular media events of today are likely to attract a big, live audience. Being example, knowing that the event is broadcast to perhaps millions of people, i of the audience and the complexity of events do not come without drawbacks right spot at the right time and to grasp the essentials of the on goings. We in combines various sources o ...


Keywords: events, media platform, mobile commerce, mobility

47 A survey of UNI signaling systems and protocols for ATM networks

Burkhard Stiller

April 1995

ACM SIGCOMM Computer Communication Review, Volume 25 Iss

Full text available:  pdf(1.27 MB)

Additional Information: full citation, abstract, citings

The main aspect covered by signaling systems and protocols for ATM network maintain, and control a user-driven communication between arbitrary ATM en The tasks and procedures defined for, e.g., setting-up an ATM connection, are rrelevant specifications of various working bodies (such as ITU-T or ATM-Foru to be done for maintaining ATM connec ...

48 Energy Efficient Systems: Wake on wireless:: an event driven energy savir

Eugene Shih, Paramvir Bahl, Michael J. Sinclair

September 2002

Proceedings of the eighth annual international conference on Mo

Full text available:  pdf(798.63 KB)

Additional Information: full citation, abstract, refere

The demand for an all-in-one phone with integrated personal information man beginning to accelerate. While personal digital assistants (PDAs) with built-in technologies have the ability to serve these needs in a single package, the ra PDA-based phones is very high. Thus, these devices can quickly drain their ow owner. In this paper, we introduce a techni ...

Keywords: low-power radio, power consumption of wireless LANs, wake-on-w

49 Using nonspeech sounds to provide navigation cues

Stephen A. Brewster

September 1998

ACM Transactions on Computer-Human Interaction (TOCHI),

Full text available:  pdf(298.94 KB)

Additional Information: full citation, abstract, references, c

This article describes 3 experiments that investigate the possibiity of using st earcons to provide navigational cues in a menu hierarchy. A hierarchy of 27 n earcon for each node. Rules were defined for the creation of hierarchical earco identify their location in the hierarchy by listening to an earcon. Results of th C ...


Keywords: auditory interfaces, earcons, navigation, nonspeech audio, telepho

50 Columns: Risks to the public in computers and related systems

Peter G. Neumann

January 2001

ACM SIGSOFT Software Engineering Notes, Volume 26 Issue 1

Full text available:  pdf(3.24 MB)

Additional Information: full citation

51 HTTP Cookies: Standards, privacy, and politics

David M. Kristol

November 2001

ACM Transactions on Internet Technology (TOIT), Volume

Full text available:  pdf(390.38 KB)

Additional Information: full citation, abstract, refere

How did we get from a world where cookies were something you ate and whe cookies" to a world where cookies are a hot-button privacy issue for many com HTTP "cookies" work and how Netscape's original specification evolved into an personal perspective on how what began as a straightforward technical specif when it tried to address nontech n ...

Keywords: Cookies, HTTP, World Wide Web, privacy, state management

52 A survey of routing techniques for mobile communications networks

S. Ramanathan, Martha Steenstrup

October 1996

Mobile Networks and Applications, Volume 1 Issue 2

Full text available:  pdf(276.88 KB)

Additional Information: full citation, abstract, reference

Mobile wireless networks pose interesting challenges for routing system desig wireless network, a routing system must be able to accommodate roving user fluctuat- ing link quality. We discuss the impact of node mobility and wireless and we survey the set of techniques employed in or proposed for routing in m

53 Sensing techniques for mobile interaction

Ken Hinckley, Jeff Pierce, Mike Sinclair, Eric Horvitz

November 2000

Proceedings of the 13th annual ACM symposium on User interfac

Full text available:  pdf(389.16 KB)

Additional Information: full citation, references, citing

Keywords: context-awareness, input devices, interaction techniques, mobile d sensors

54 Applying packet techniques to cellular radio

N. F. Maxemchuk

December 1999

Wireless Networks, Volume 5 Issue 6

Full text available:  pdf(310.07 KB) Additional Information: full citation, references, index terms

55 A service framework for carrier grade multimedia services using PARPLAY

Rudolf Pailer, Johannes Stadler

July 2001

Proceedings of the first workshop on Wireless mobile internet

Full text available:  pdf(713.19 KB)

Additional Information: full citation, abstract, refere

The implementation of new mobile communication technologies developed in (3GPP) will allow to access the Internet not only from a PC but also via mobil applications will emerge, combining several basic services like voice telephon web-browsing, and thus wiping out the borders between the fixed telephone n Offering those value-added s ...

Keywords: SIR-PARLAY mapping, caller preferences, carrier grade services, ne platform

56 Electronic commerce: a half-empty glass?

Sasa Dekleva

June 2000

Communications of the AIS

Full text available:  pdf(343.49 KB) Additional Information: full citation, references

57 Computer applications in a cable television environment

Howard Buckholtz, Eileen Buckholtz

August 1973

Proceedings of the annual conference

Full text available:  pdf(649.01 KB)

Additional Information: full citation, abstract, references, index t

The intention of this paper is to survey the field of cable television and compu

58 Concepts for personal location privacy policies

Einar Snekkenes

October 2001

Proceedings of the 3rd ACM conference on Electronic Comme

Full text available:  pdf(245.64 KB)

Additional Information: full citation, abstract, refere

A Location Based Service (LBS) is a service where knowledge of the location o personalise the service. Typical examples include the E911 emergency locatio nearest xx' type of services. However, since these services often may be impl personal information, there are several privacy issues to consider. A key ques location information under which cir ...

Keywords: EDGE, GPRS, GSM, PCS, UMTS, iMode privacy policy

59 Rethinking the design of the Internet: the end-to-end arguments vs. the bra

Marjory S. Blumenthal, David D. Clark

August 2001

ACM Transactions on Internet Technology (TOIT), Volume 1 Is

Full text available:  pdf(176.33 KB)

Additional Information: full citation, abstract, reference

This article looks at the Internet and the changing set of requirements for the more oriented toward the consumer, and used for a wider set of purposes. We guided the design of the Internet, called the end-to-end arguments, and we c of new requirements now emerging could have the consequence of compromi principles. Were ...

Keywords: ISP, Internet, end-to-end argument

60 Personality trait attributions to voice mail user interfaces

John P. Chin

April 1996

Conference companion on Human factors in computing systems: comm

Full text available:  pdf(217.07 KB)

Additional Information: full citation, references, index terms

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Chih-Lin I, Gregory P. Pollini, Richard D. Gitlin

February 1997 IEEE/ACM Transactions on Networking (TON), Volume 5 Issue 1

Full text available: pdf(280.50 KB)

Additional Information: full citation, references, citings, index ter

Keywords: PCS, mobility management, personal communications, reverse virt

42 Experiences with network-based user agents for mobile applications

Thomas F. La Porta, Thomas Woo, Krishan K. Sabnani, Ramachandran Ramjee

August 1998 Mobile Networks and Applications, Volume 3 Issue 2

Full text available: pdf(631.57 KB)

Additional Information: full citation, abstract, refere

Wireless networks are characterized by simple end devices and limited bandwidth. Other limitations of the wireless mobile environment that have been widely pursued are user agents, inside the network to assist with application processing that would not be possible otherwise. Agents can additionally manipulate data to reduce bandwidth requirements and improve the implementation of a user application.

43 Emerging mobile and wireless networks

Upkar Varshney, Ron Vetter

June 2000 Communications of the ACM, Volume 43 Issue 6

Full text available:  pdf(609.43 KB) Additional Information: full citation, references, citings, index terms, review

44 On-ramp prospects for the information superhighway dream: will the goal of carrying a wide variety of data types ever be achieved?

Gordon Bell, Jim Gemmell

July 1996 Communications of the ACM, Volume 39 Issue 7

Full text available:  pdf(369.58 KB) Additional Information: full citation, citings

45 Overlay networks: SOS: secure overlay services

Angelos D. Keromytis, Vishal Misra, Dan Rubenstein

August 2002 Proceedings of the 2002 conference on Applications, technologies, and communications

Full text available:  pdf(210.90 KB) Additional Information: full citation, abstract, refere

Denial of service (DoS) attacks continue to threaten the reliability of network protecting networks from DoS attacks are reactive in that they wait for an appropriate measures to protect the network. This leaves the door open for other methods to mask their traffic. We propose an architecture called Secure Overlay DoS attacks, geared toward supporting ...

Keywords: denial of service attacks, network security, overlay networks

46 MEP: a media event platform

Daniel Olsson, Andreas Nilsson

June 2002 Mobile Networks and Applications, Volume 7 Issue 3

Full text available:  pdf(224.85 KB) Additional Information: full citation, abstract, refere

Popular media events of today are likely to attract a big, live audience. Being example, knowing that the event is broadcast to perhaps millions of people, the of the audience and the complexity of events do not come without drawbacks right spot at the right time and to grasp the essentials of the on goings. We in combines various sources of ...

Keywords: events, media platform, mobile commerce, mobility

47 A survey of UNI signaling systems and protocols for ATM networks

Burkhard Stiller

April 1995

ACM SIGCOMM Computer Communication Review, Volume 25 Iss

Full text available:  pdf(1.27 MB)

Additional Information: full citation, abstract, citings

The main aspect covered by signaling systems and protocols for ATM network maintain, and control a user-driven communication between arbitrary ATM en The tasks and procedures defined for, e.g., setting-up an ATM connection, are rrelevant specifications of various working bodies (such as ITU-T or ATM-Foru to be done for maintaining ATM connec ...

48 Energy Efficient Systems: Wake on wireless:: an event driven energy savir

Eugene Shih, Paramvir Bahl, Michael J. Sinclair

September 2002

Proceedings of the eighth annual international conference on Mo

Full text available:  pdf(798.63 KB)

Additional Information: full citation, abstract, refere

The demand for an all-in-one phone with integrated personal information man beginning to accelerate. While personal digital assistants (PDAs) with built-in technologies have the ability to serve these needs in a single package, the ra PDA-based phones is very high. Thus, these devices can quickly drain their ow owner. In this paper, we introduce a techni ...

Keywords: low-power radio, power consumption of wireless LANs, wake-on-w

49 Using nonspeech sounds to provide navigation cues

Stephen A. Brewster

September 1998

ACM Transactions on Computer-Human Interaction (TOCHI),

Full text available:  pdf(298.94 KB)

Additional Information: full citation, abstract, references, c

This article describes 3 experiments that investigate the possibiity of using st earcons to provide navigational cues in a menu hierarchy. A hierarchy of 27 n earcon for each node. Rules were defined for the creation of hierarchical earco identify their location in the hierarchy by listening to an earcon. Results of th C ...


Keywords: auditory interfaces, earcons, navigation, nonspeech audio, telepho

50 Columns: Risks to the public in computers and related systems

Peter G. Neumann

January 2001

ACM SIGSOFT Software Engineering Notes, Volume 26 Issue 1

Full text available:  pdf(3.24 MB)

Additional Information: full citation

51 HTTP Cookies: Standards, privacy, and politics

David M. Kristol

November 2001

ACM Transactions on Internet Technology (TOIT), Volume

Full text available:  pdf(390.38 KB)

Additional Information: full citation, abstract, refere

How did we get from a world where cookies were something you ate and whe cookies" to a world where cookies are a hot-button privacy issue for many com HTTP "cookies" work and how Netscape's original specification evolved into an personal perspective on how what began as a straightforward technical specif when it tried to address nontechn ...

Keywords: Cookies, HTTP, World Wide Web, privacy, state management

52 A survey of routing techniques for mobile communications networks

S. Ramanathan, Martha Steenstrup

October 1996

Mobile Networks and Applications, Volume 1 Issue 2

Full text available:  pdf(276.88 KB)

Additional Information: full citation, abstract, reference

Mobile wireless networks pose interesting challenges for routing system desig wireless network, a routing system must be able to accommodate roving user fluctuat- ing link quality. We discuss the impact of node mobility and wireless and we survey the set of techniques employed in or proposed for routing in m

53 Sensing techniques for mobile interaction

Ken Hinckley, Jeff Pierce, Mike Sinclair, Eric Horvitz

November 2000

Proceedings of the 13th annual ACM symposium on User interfac

Full text available:  pdf(389.16 KB)

Additional Information: full citation, references, citing

Keywords: context-awareness, input devices, interaction techniques, mobile d sensors

54 Applying packet techniques to cellular radio

N. F. Maxemchuk

December 1999

Wireless Networks, Volume 5 Issue 6

Full text available:  pdf(310.07 KB) Additional Information: full citation, references, index terms

55 A service framework for carrier grade multimedia services using PARPLAY

Rudolf Pailer, Johannes Stadler

July 2001

Proceedings of the first workshop on Wireless mobile internet

Full text available:  pdf(713.19 KB)

Additional Information: full citation, abstract, refere

The implementation of new mobile communication technologies developed in (3GPP) will allow to access the Internet not only from a PC but also via mobil applications will emerge, combining several basic services like voice telephon web-browsing, and thus wiping out the borders between the fixed telephone n Offering those value-added s ...

Keywords: SIR-PARLAY mapping, caller preferences, carrier grade services, ne platform

56 Electronic commerce: a half-empty glass?

Sasa Dekleva

June 2000

Communications of the AIS

Full text available:  pdf(343.49 KB) Additional Information: full citation, references

57 Computer applications in a cable television environment

Howard Buckholtz, Eileen Buckholtz

August 1973

Proceedings of the annual conference

Full text available:  pdf(649.01 KB)

Additional Information: full citation, abstract, references, index t

The intention of this paper is to survey the field of cable television and compu

58 Concepts for personal location privacy policies

Einar Snekkenes

October 2001

Proceedings of the 3rd ACM conference on Electronic Comme

Full text available:  pdf(245.64 KB)

Additional Information: full citation, abstract, refere

A Location Based Service (LBS) is a service where knowledge of the location o personalise the service. Typical examples include the E911 emergency locatio nearest xx' type of services. However, since these services often may be impl personal information, there are several privacy issues to consider. A key ques location information under which cir ...

Keywords: EDGE, GPRS, GSM, PCS, UMTS, iMode privacy policy

59 Rethinking the design of the Internet: the end-to-end arguments vs. the bra

Marjory S. Blumenthal, David D. Clark

August 2001

ACM Transactions on Internet Technology (TOIT), Volume 1 Is

Full text available:  pdf(176.33 KB)

Additional Information: full citation, abstract, reference

This article looks at the Internet and the changing set of requirements for the more oriented toward the consumer, and used for a wider set of purposes. We guided the design of the Internet, called the end-to-end arguments, and we c of new requirements now emerging could have the consequence of compromi principles. Were ...

Keywords: ISP, Internet, end-to-end argument

60 Personality trait attributions to voice mail user interfaces

John P. Chin

April 1996

Conference companion on Human factors in computing systems: comm

Full text available:  pdf(217.07 KB)

Additional Information: full citation, references, index terms

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